

FIG. 1

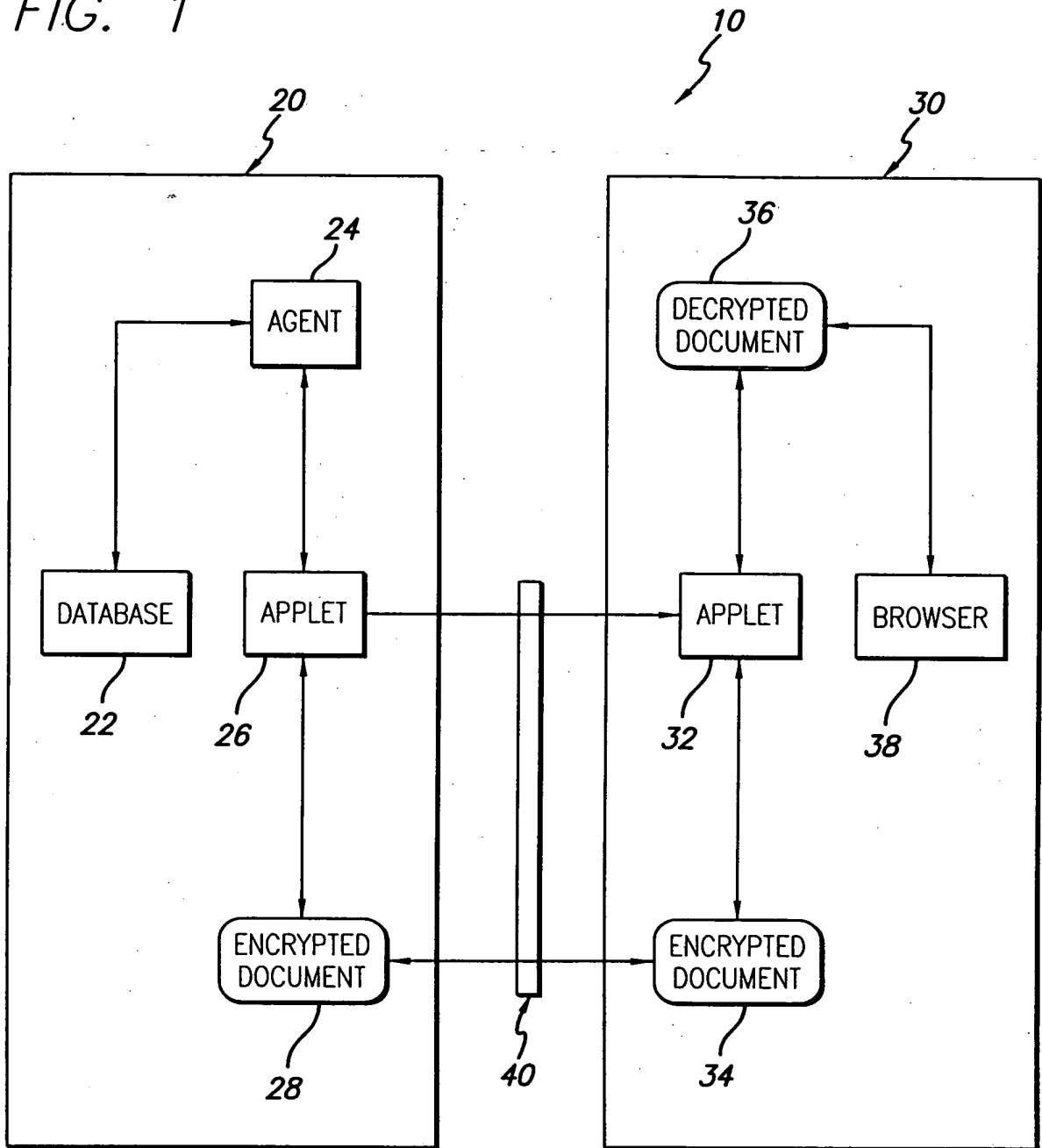


FIG. 2(a)

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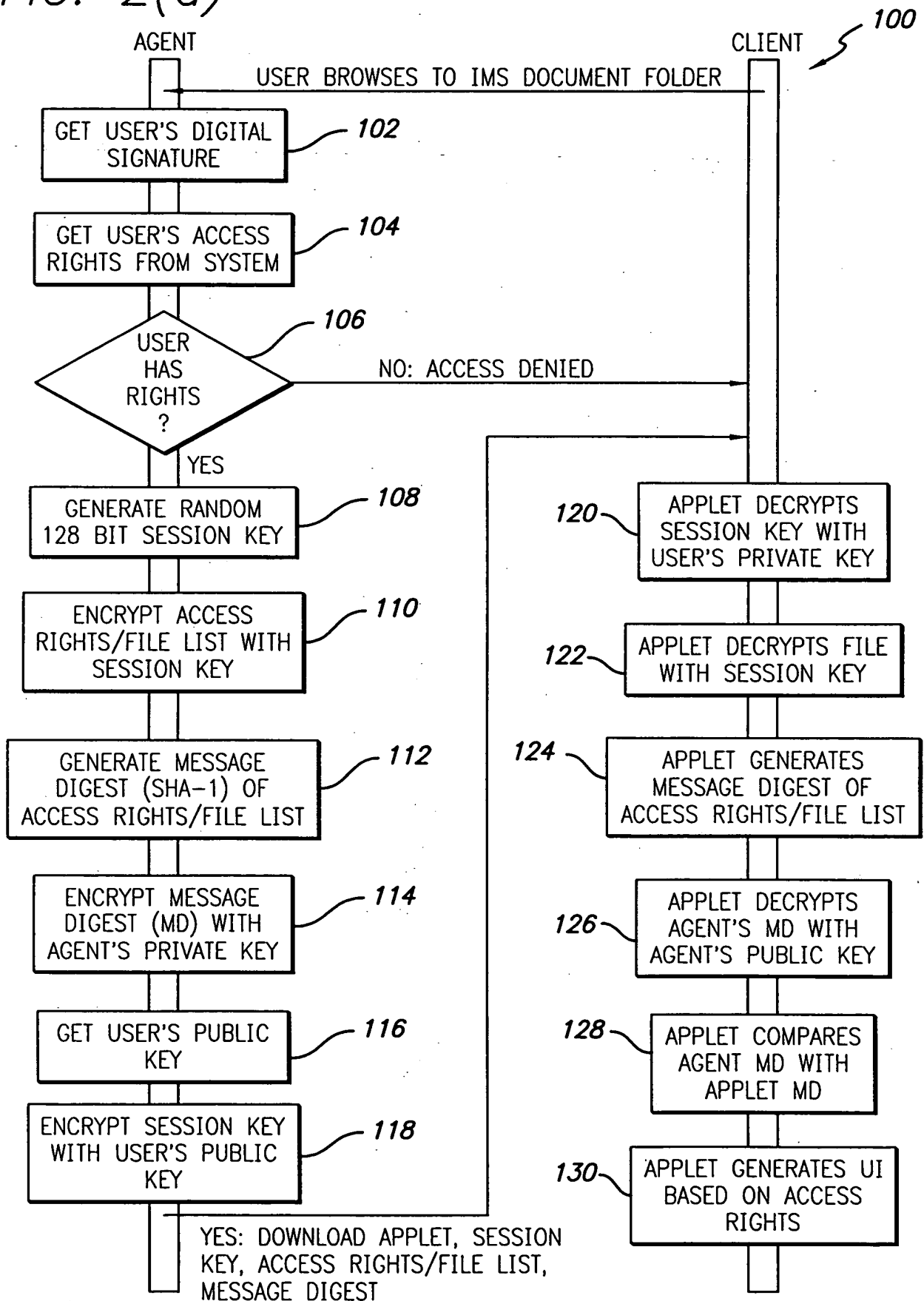
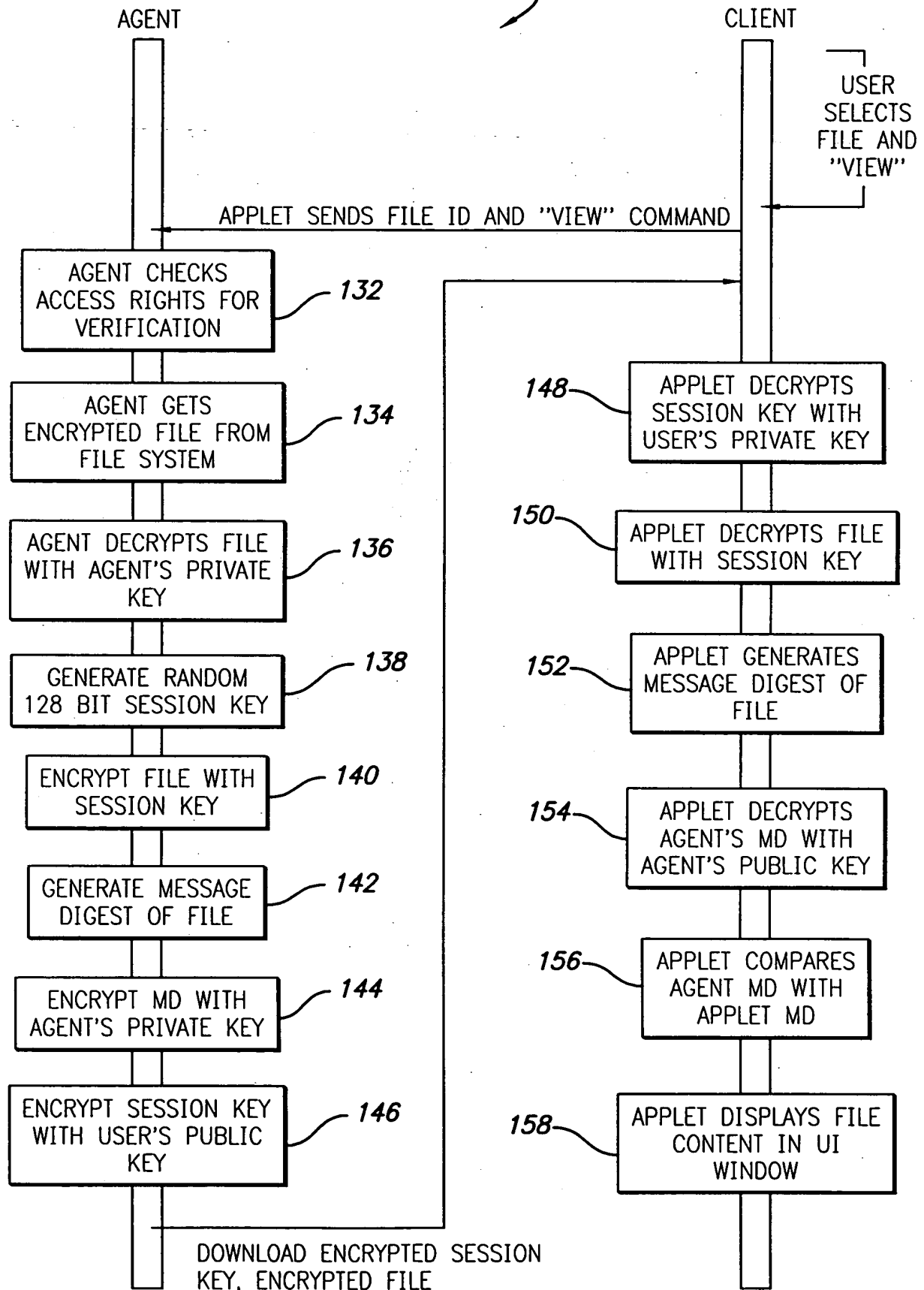


FIG. 2(b)

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AGENT

AGENT

FIG. 2(c) 4/5

FIG. 2(d)

APPLET SENDS ENCRYPTED FILE,
SESSION KEY AND MESSAGE DIGEST

AGENT DECRYPTS
SESSION KEY WITH
USER'S PUBLIC KEY

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AGENT DECRYPTS FILE
WITH SESSION KEY

174

AGENT GENERATES
MESSAGE DIGEST OF
FILE

176

AGENT DECRYPTS
APPLET'S MD WITH
APPLET'S PUBLIC KEY

178

AGENT COMPARES
AGENT MD WITH
APPLET MD

180

AGENT ADDS TAGS FOR
USER, SUBMISSION
TIME AND DATE

182

AGENT ENCRYPTS FILE
WITH AGENT'S PUBLIC
KEY

184

AGENT WRITES
ENCRYPTED FILE TO FILE
SYSTEM

186

CLIENT

USER
SELECTS
"MODIFY"

USER
MODIFIES
FILE

CLIENT

USER SELECTS
"SUBMIT
CHANGES"

APPLET ADDS TAGS FOR
USER'S CHANGES

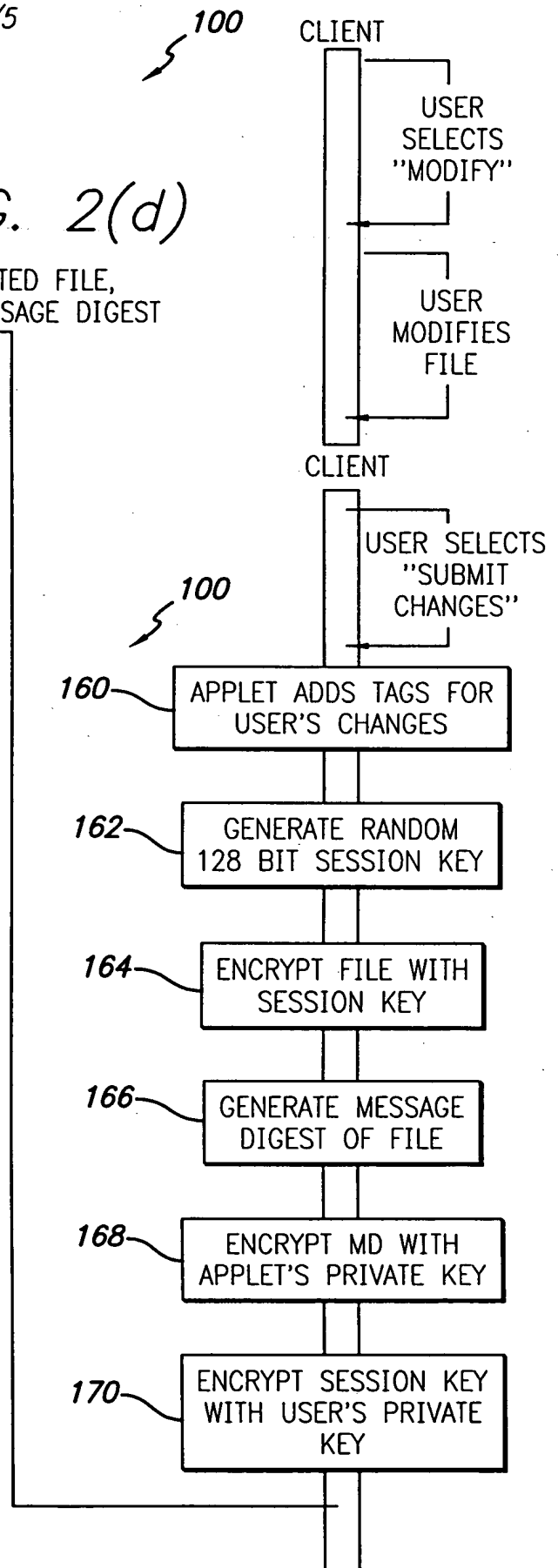
GENERATE RANDOM
128 BIT SESSION KEY

ENCRYPT FILE WITH
SESSION KEY

GENERATE MESSAGE
DIGEST OF FILE

ENCRYPT MD WITH
APPLET'S PRIVATE KEY

ENCRYPT SESSION KEY
WITH USER'S PRIVATE
KEY



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AGENT

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CLIENT

USER SELECTS
"VIEW
HISTORY"

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APPLET DISPLAYS
DOCUMENT HISTORY IN
UI WINDOW

FIG. 2(e)